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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/810,338 03/26/2004		Ahmad Absar	03108/0201075-US0	8253	
7278 7:	590 12/19/2005		EXAMINER		
DARBY & DARBY P.C.			WARE, DEBORAH K		
P. O. BOX 525 NEW YORK	7 NY 10150-5257		ART UNIT	PAPER NUMBER	
TIDW TOTAL,	111 10100 0207		1651		

DATE MAILED: 12/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		I A I! A! A1		A (! 4/ - )				
	i d	Application N	0.	Applicant(s)				
		10/810,338		ABSAR ET AL.				
Offi	ice Action Summary	Examiner		Art Unit				
		Deborah K. Wa	are	1651				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTEN WHICHEVER - Extensions of tin after SIX (6) MO - If NO period for - Failure to reply v Any reply receive	ED STATUTORY PERIOD FOR REP IS LONGER, FROM THE MAILING of the may be available under the provisions of 37 CFR of the mailing date of this communication. The series above, the maximum statutory perior within the set or extended period for reply will, by statuted by the Office later than three months after the mail through the office of the series and pure adjustment. See 37 CFR 1.704(b).	DATE OF THIS ( 1.136(a). In no event, he ad will apply and will exp ute, cause the applicatio	COMMUNICATION bwever, may a reply be time ire SIX (6) MONTHS from to the to become ABANDONED	l. ely filed the mailing date of this c O (35 U.S.C. § 133).				
Status					•			
2a)☐ This ac 3)☐ Since the	nsive to communication(s) filed on tion is <b>FINAL</b> . 2b)⊠ Th nis application is in condition for allow in accordance with the practice under	nis action is non-f	formal matters, pro		e merits is			
Disposition of C	laims							
4a) Of the 5) ☐ Claim(s 6) ☑ Claim(s 7) ☐ Claim(s	is) 1-12 is/are pending in the application above claim(s) is/are withdres; is/are allowed. is) 1-12 is/are allowed. is) 1-12 is/are rejected. is) is/are objected to. is) are subject to restriction and	awn from consid						
Application Pape	ers							
9)☐ The spe	cification is objected to by the Examir	ner.						
10)☐ The dra	wing(s) filed on is/are: a)□ ad	ccepted or b)	bjected to by the E	xaminer.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35	5 U.S.C. & 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2) Notice of Drafts	ences Cited (PTO-892) sperson's Patent Drawing Review (PTO-948) closure Statement(s) (PTO-1449 or PTO/SB/0ail Date	-/	Interview Summary ( Paper No(s)/Mail Dat  Notice of Informal Pa  Other:	te	O-152)			

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## **DETAILED ACTION**

Claims 1-12 are presented for examination on the merits.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Klabunde et al (US 6843919), cited on enclosed PTO-892 Form.

Claims are drawn to a process for controlled oxide nanoparticles which comprises incubating a fungus with a solution of metal salt to obtain a biomass, removing the biomass and filtering the oxide nanoparticles.

Klabunde et al teach a process for controlled oxide nanopartices which comprises contacting under conditions of temperature at 15 to 50 degrees C, see

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column 5, line 36. Fungi are disclosed at column 4, line 20. They are formed from a metal salt solution, note example II, column 6.

The claims differ from Klabunde in that it is direct biological process whereas the disclosed process discloses that fungi can be selected for in their process.

It would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to select for a fungi as the target substance in order to carry out a biological process for controlled oxide nanoparticles. The steps of the claimed process are disclosed by the cited prior art. One of skill in the art would have expected successful results with the conditions selected by Applicants because they are disclosed by the cited prior art.

It would have been well within the skill of an ordinary artisan to select for varied ambient temperatures and amounts and further to select from heavy metal salts like chlorides to incubate with the fungi because the reference clearly teach that the fungi are capable of removing these metals to provide for the oxide nanoparticles. One of skill in the art would have been motivated to modify the teachings of Klabunde in order to carry out a biological process for producing the nanoparticles. In the absence of persuasive evidence to the contrary the claims are rendered prima facie obvious over the cited prior art.

All claims fail to be patentably distinguishable over the state of the art discussed above and cited on the enclosed PTO-892 and/or PTO-1449. Therefore, the claims are properly rejected.

No claims are allowed.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah K. Ware whose telephone number is 571-272-0924. The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DEBORAH K WARE PATENT EXAMINER

Deborah K. Ware December 10, 2005